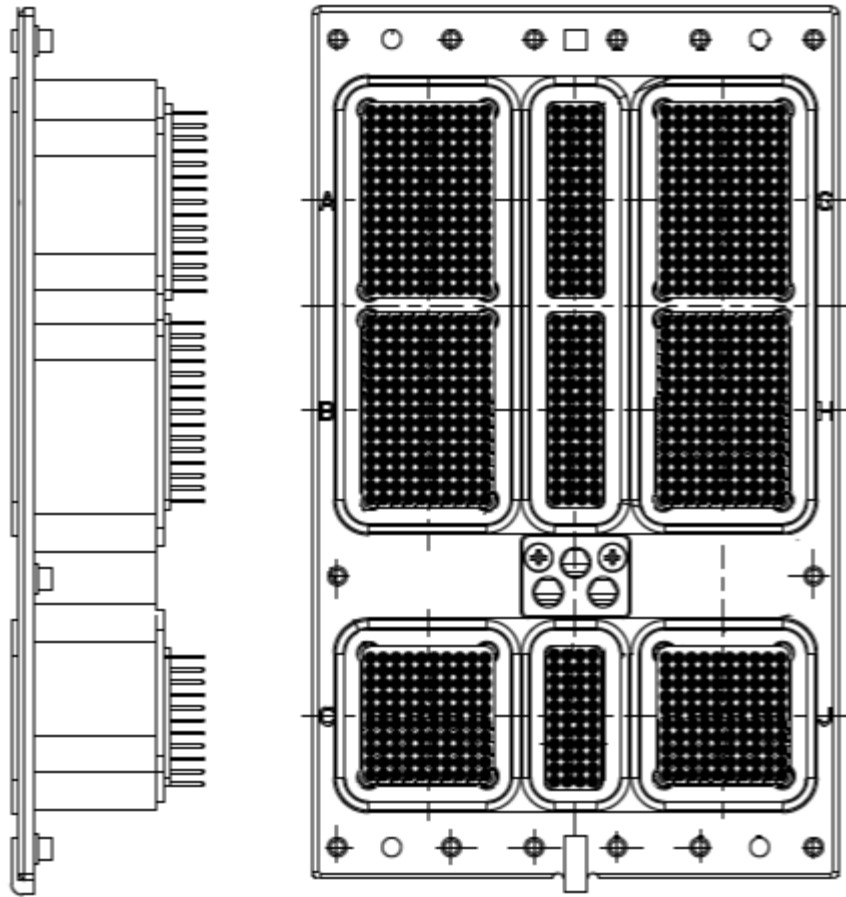
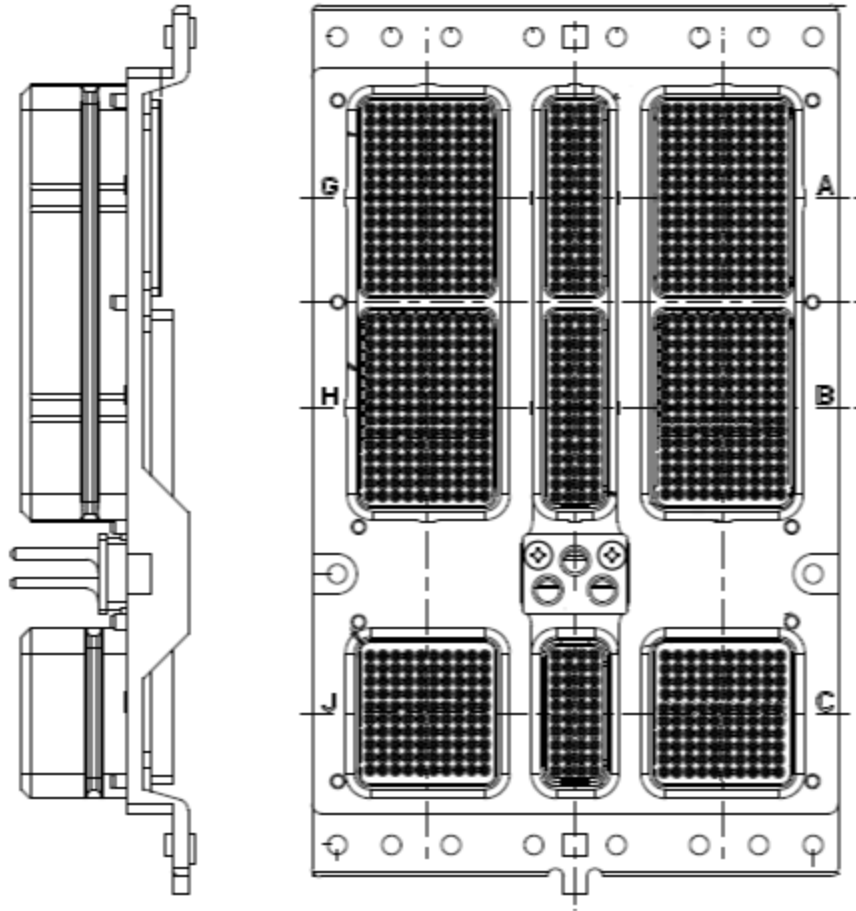


ARINC Project Initiation/Modification (APIM)

- 1.0 Name of Proposed Project** **APIM 20-002A**
Supplement 21 to ARINC Specification 600: Air Transport Avionics Equipment Interfaces
Size 4 ARINC 600 Connector, Rack and Panel (960 pins)
- 1.1 Name of Originator and/or Organization**
AIRBUS
- 2.0 Subcommittee Assignment and Project Support**
- 2.1 Suggested AEEC Group and Chairman**
ARINC 600 Connector Working Group
Chairman: **Steffen Ohde, Airbus** ~~TBD~~
- 2.2 Support for the Activity (as verified)**
Airlines: TBD
Airframe Manufacturers: AIRBUS
Suppliers: RADIALL / SOURIAU / TE
Others: to add system suppliers → AIRBUS AVIONICS (internal suppliers)
- 2.3 Commitment for Drafting and Meeting Participation (as verified)**
Airlines: TBD
Airframe Manufacturers: AIRBUS
Suppliers: RADIALL / SOURIAU / TE
Others: to add system suppliers → AIRBUS AVIONICS (internal suppliers)
- 2.4 Recommended Coordination with other groups**
Cabin Systems Subcommittee
SAI Subcommittee
- 3.0 Project Scope (why and when standard is needed)**
- 3.1 Description**
The aim is to increase:
- New connector size with 3 additional cavities
 - Shell number available
 - Pins number
- See attached presentation.



Receptacle connector



Plug connector

ARINC 600 performance expected to be defined, both electrical and mechanical.

3.2 Planned usage of the ARINC Standard

Note: New airplane programs must be confirmed by the aircraft manufacturer prior to completing this section.

New aircraft developments planned to use this specification yes no

 Airbus: (aircraft & date)

 Boeing: (aircraft & date)

 Other: (manufacturer, aircraft & date)

Modification/retrofit requirement yes no

 Specify: (A320 & 2023 for testing)

Needed for airframe manufacturer or airline project yes no

 Specify: (A320 & 2023 for testing)

Mandate/regulatory requirement yes no

Program and date: (program & date)

Is the activity defining/changing an infrastructure standard? yes no

Specify: ARINC 600 standard

When is the ARINC standard required? **May 2024**~~Dec 2021~~

What is driving this date?
to secure system architecture new development with buy strategy

Are 18 months (min) available for standardization work? yes no

If NO please specify solution: _____

Are Patent(s) involved? yes no

If YES please describe, identify patent holder: _____

3.3 Issues to be Worked

(Describe the major issues to be addressed.)
Additional cavities with existing ARINC 600 shells (cf. drawing).

3.4 Security Scope

Is Cyber Security Impacted (if yes, check box(es) below) yes no

Aircraft Control Domain yes no

Airline Information Services Domain yes no

PAX Information and Entertainment Systems yes no

Other _____ yes no

4.0 Benefits

4.1 Basic Benefits

Operational enhancements yes no

For equipment standards:

(a) Is this a hardware characteristic? yes no

(b) Is this a software characteristic? yes no

(c) Interchangeable interface definition? yes no

(d) Interchangeable function definition? yes no

If not fully interchangeable, please explain: _____

Is this a software interface and protocol standard? yes no

Specify: _____

Product offered by more than one supplier yes no

Identify: RADIALL / SOURIAU / TE

4.2 Specific Project Benefits

Offer more PIN contact per avionics equipment to system.

4.2.1 Benefits for Airlines

Enabler for more integrated systems (e.g. Reduce number of avionics S/N)

4.2.2 Benefits for Airframe Manufacturers

Offer more PIN contact per avionics equipment to system,

4.2.3 Benefits for Avionics Equipment Suppliers

Foster an ecosystem around a new standardized connector.

5.0 Documents to be Produced and Date of Expected Result

ARINC 600 Standard update **in May 2024.** ~~for December 2021.~~

5.1 Meetings and Expected Document Completion

6 meetings to be anticipated during the 18 months

The following table identifies the number of meetings and proposed meeting days needed to produce the documents described above.

Activity	Mtgs	Mtg-Days (Total)	Expected Start Date	Expected Completion Date
ARINC 600	20 (est) 6	20 (est) 18	06/2020	12/2021 May 2024

Bi-monthly online meetings are planned at this time (6 meetings per year).

~~Please note the number of in-person meetings and the number of meeting days to be supported by the ARINC IA Staff.~~

~~Please add a statement describing the frequency of web-conferences.~~

6.0 Comments

These meetings will be held online until in-person travel is viable.

6.1 Expiration Date for the APIM

December ~~2022~~ **2024**

**Completed forms should be submitted to Paul Prisaznuk (pjp@sae-itc.org)
AEEC Executive Secretary & Program Director**